

United States Department of Agriculture Forest Service

Forest Health Protection



# **Building a National Framework**

#### **Phytophthora** ramorum



June 8-11, 2010 San Rafael, CA COMTF

# Long Ago .... 2001



# History

FUNDING IN THOUSANDS FOR SUDDEN OAK DEATH						
Fiscal Year	State	FS	APHIS	ARS	NIFA	Total
2000	117	120	0	0	0	237
2001	165	4,200	0	0	0	4,365
2002	3,586	970	900	0	0	5,456
2003	0	3,700	2,000	620	300	6,620
2004	0	3,700	19,500	1,300	300	24,800
2005	0	4,400	12,400	1,232	120	18,152
2006	0	5,533	2,466	1,881	0	9,880
2007	0	3,220	3,062	1,881	0	8,163
2008	0	3,490	5,326	1,749	73	10,638
Total	3,868	29,333	45,654	8,663	793	88,311

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January 2008

# FHP 2010-2011

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Forest Service FHP SOD Proposals (2010-2011)	\$\$	Emphasis
Sudden Oak Death Monitoring and Diagnostics in California	\$94,500	Detection Surveys
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Early Detection and Eradication of Phytophthora ramorum in the California border area of Oregon	\$50,000	Detection Surveys
Diagnosis and Management of Sudden Oak Death in California	\$47,000	) Monitoring/Mgmt
Evaluation of Field Kits to Detect Phytophthora ramorum; UC Riverside	\$41,055	Methods Development
Sudden Oak Death <b>Outreach</b> Program in Sonoma County	\$41,055	Outreach & Education
Natural Resistance of Coast Live oak to Phytophthora ramorum	\$40,000	Resistance
Sudden Oak Death Management and Monitoring in the San Fransico Bay area	\$33,750	) Monitoring/Mgmt
Southern Area Sudden Oak Death Monitoring Plan	\$27,000	) Monitoring/Mgmt
Mattole Sudden Oak Death Control Project	\$21,281	Monitoring/Mgmt
Del Norte Co. Agriculture Extension; Sudden Oak Death Monitoring and Mitigation	\$20,000	) Monitoring/Mgmt
Long-term monitoring and response to the Sudden Oak Death in the Tamalpais Watershed	\$20,000	) Monitoring/Mgmt
Impact assessment of Sudden Oak Death in the Redwood National Park	\$20,000	) PreImpact
Forest Landowner Assistance for Sudden Oak Death; CALFIRE	\$19,580	Cooperative Extension
Mapping of Sudden Oak Death Using Geographic Information Systems; UC Berkeley	\$15,323	B Detection Surveys
Phytophthora ramorum stream baiting and monitoring Yurok Tribe	\$12,000	Detection Surveys
Tamalpais Valley Sudden Oak Death Delineation Project	\$10,020	Detection Surveys
Stream-based Survey for detecting Phytophthora ramorum in the Northern Sierra Nevada	\$9,925	Detection Surveys

Total FHP \$522,489

## FHP Concerns

 Disease spreads from nurseries to natural vegetation through direct transmission or transplanting infected plants, soil, and water

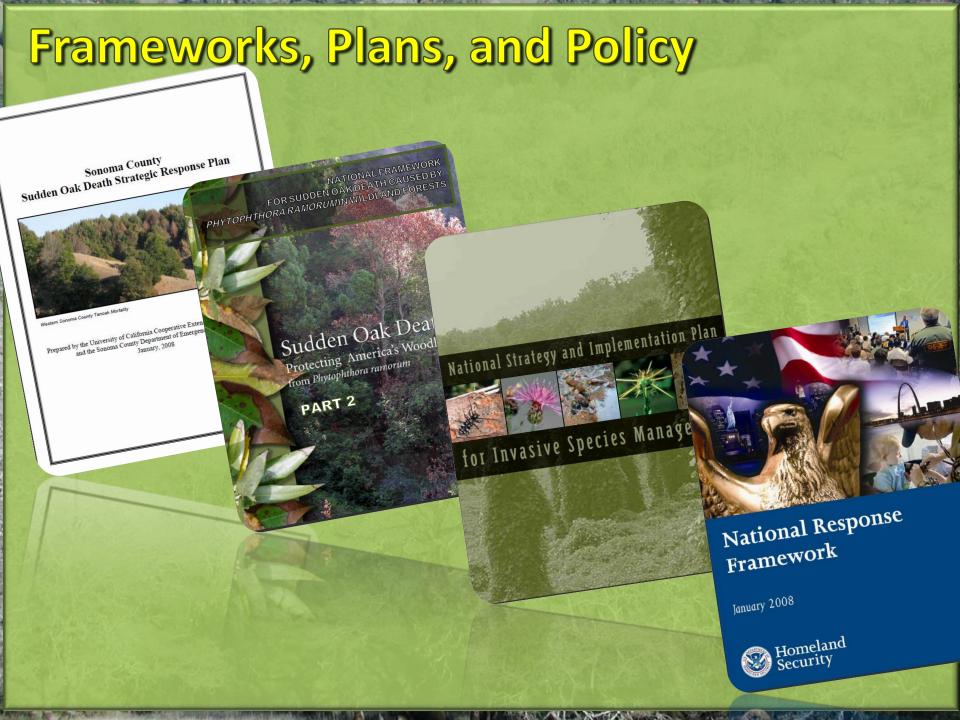
 Broad host range and nursery pathways nationwide continue to make this a critical issue to the forest

 Foliar hosts contribute to a build-up of the fungus in the environment, serving as 'spore pumps' to infect woody tissues of oaks

 A plausible pathway from water to forest ecosystems growing under similar climate does exist

ASIA ALLO RECEIVED

Eastern woody plants are susceptible



## **Intended Audience**

# State Foresters

# State Agriculture

# Congressional Staff

# Land Managers

# **Framework Utility**

# Engaged partnerships

### Tiered response

# Scalable and adaptive

# • Unified effort

### **Readiness to act**

## Objectives

## Check-up on SOD Management

# Work through decision matrix

# Build a Manager's Tool Box

# Scenarios: Water, Veg, Tree

# Finalize Outline for Iter#4

FOREST SERV	SOD Matrix					
-	Identify Potential Threats	Detect Actual Threats	Assess Impacts	Respond		
Sequ	Identify Nature of Specific Threat	Surveillance and Reporting	Evaluate Extent, Severity, Potential Impact	Consult and Coordinate Actions		
e n c e o f E	Identify Mode of Spread	Systematic Detection Surveys	Conduct Regulatory And Quarantine Assessments	Implement Appropriate Treatments		
v e n t s	Identify Environmental Influences	Special Detection Surveys	Evaluate and Develop Treatment Options	Monitor Treatment Effectiveness		
	Identify Vulnerable Ecosystems	Verification and Notification	Assess Potential Response Actions	Restore Affected Areas		

# SOD Management Tools

Practice & Principle	Cultural	Chemical	Biological
Exclusion			
Eradication			
Protection			
Resistance			

#### Response

# •Extent of infection determines 'go' or 'no-go' this is the State's call

### Stream find should trigger source search mitigation then follows

# Vegetation survey should be done on known suspects again extent

Stem canker will trigger HS

# **Roles & Responsibilities**



FS

**APHIS** 

# Challenge

#### FROM THE NORM, PROGRESS IS NOT POSSIBLE -FRANK ZAPPA

Better communication
NASE/NPB
Make the case
Success stories
Due diligence

# Best Management



Protocols (need) -Forests /Wildlands



### **Outline Agreed Upon**

•PREVENTION DETECTION •RESPONSE •MANAGEMENT •RESTORATION **•OUTREACH & EDUCATION** RESEARCH

#### Team

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### **Review Team**

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## **Next Steps**

 One more iteration to team Out to the Review Team Design, photos, & graphics Sign off by FS/APHIS/NASF/NPB • Print shoppe Distribution

# Thank you

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